

The following security alert was issued by the Information Security Division of the Mississippi Department of ITS and is intended for State government entities. The information may or may not be applicable to the general public and accordingly, the State does not warrant its use for any specific purposes.

TLP: WHITE

Disclosure is not limited. Subject to standard copyright rules, TLP: WHITE information may be distributed without restriction.

<http://www.us-cert.gov/tlp/>

DATE(S) ISSUED:

08/27/2019

SUBJECT:

A Vulnerability in Google Chrome Could Allow for Arbitrary Code Execution

OVERVIEW:

A vulnerability has been discovered in Google Chrome, which could allow for arbitrary code execution. Google Chrome is a web browser used to access the Internet. Successful exploitation of this vulnerability could allow an attacker to execute arbitrary code in the context of the browser. Depending on the privileges associated with the application, an attacker could install programs; view, change, or delete data; or create new accounts with full user rights. If this application has been configured to have fewer user rights on the system, exploitation of the most severe of these vulnerabilities could have less impact than if it was configured with administrative rights.

THREAT INTELLIGENCE:

There are currently no reports of this vulnerability being exploited in the wild.

SYSTEMS AFFECTED:

- Google Chrome versions prior to 76.0.3809.132

RISK:

Government:

- Large and medium government entities: **High**
- Small government entities: **Medium**

Businesses:

- Large and medium business entities: **High**
- Small business entities: **Medium**

Home users: Low

TECHNICAL SUMMARY:

A vulnerability has been discovered in Google Chrome which could result in arbitrary code execution. This vulnerability is a use-after-free vulnerability in Blink that can be exploited if a user visits, or is redirected to, a specially crafted web page.

Successful exploitation of this vulnerability could allow an attacker to execute arbitrary code in the context of the browser, obtain sensitive information, bypass security restrictions and perform unauthorized actions, or cause denial-of-service conditions.

RECOMMENDATIONS:

The following actions should be taken:

- Apply the stable channel update provided by Google to vulnerable systems immediately after appropriate testing.
- Run all software as a non-privileged user (one without administrative privileges) to diminish the effects of a successful attack.
- Remind users not to visit un-trusted websites or follow links provided by unknown or un-trusted sources.
- Inform and educate users regarding the threats posed by hypertext links contained in emails or attachments especially from un-trusted sources.
- Apply the Principle of Least Privilege to all systems and services.

REFERENCES:

Google:

https://chromereleases.googleblog.com/2019/08/stable-channel-update-for-desktop_26.html

CVE:

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-5869>

TLP: WHITE

Disclosure is not limited. Subject to standard copyright rules, TLP: WHITE information may be distributed without restriction.

<http://www.us-cert.gov/tlp/>

This message and attachments may contain confidential information. If it appears that this message was sent to you by mistake, any retention, dissemination, distribution or copying of this message and attachments is strictly prohibited. Please notify the sender immediately and permanently delete the message and any attachments.

Chris Watts

Security Operations Analyst

MS Department of Information Technology Services

601-432-8201 | www.its.ms.gov



DISCLAIMER: This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the system manager. This message contains confidential information and is intended only for the individual named. If you are not the named addressee you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately by e-mail if you have received this e-mail by mistake and delete this e-mail from your system. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited